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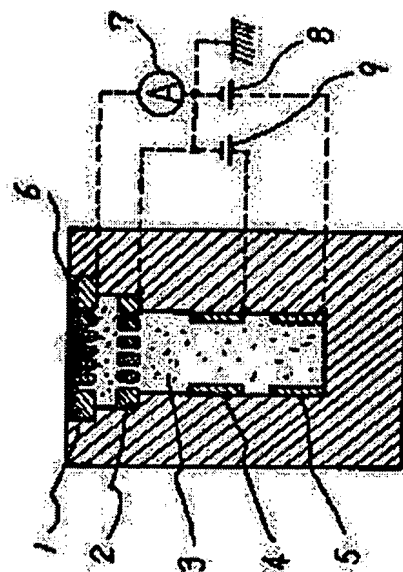|		
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(54) DISSOLVED OXYGEN METER EQUIPPED WITH ELECTRODE FOR REMOVING INTERFERING COMPONENT

(57)Abstract:

PURPOSE: To prevent interfering components from diffusing into the surface of a porous metal, by installing an electrode for removing the interfering components on the backside of the porous metal cathode of a dissolved oxygen meter.
CONSTITUTION: An electrolytic soln. 3 is sealed in, and a porous metal cathode 1 is installed on the backside of an oxygen permeable membrane 6 to form the present dissolved oxygen meter. An electrically conductive metal, such as Au, Ag, or Pt, provided with through-holes only through which the electrolytic soln. is connected between the inside and outside is arranged near the cathode 1 to form the electrode 2 for removing interfering components. This electrodes 2 and an anode 4 are connected with a wire, and the potential difference between both electrodes 2, 4 is kept equal to that of the electrode 1 and an anode 5. Dissolved oxygen and the interfering components, such as ions in the electrolytic soln. 3 are reduced when diffusing and passing through the through-holes of the electrode 2. Hence, it can be prevented to cause interfering electric current.

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